

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2006/311575

A. CLASSIFICATION OF SUBJECT MATTER C12N15/09(2006.01) i, A61K39/395(2006.01) i, A61P31/00(2006.01) i, C07K16/00(2006.01) i According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N15/09, A61K39/395, A61P31/00, C07K16/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BICIS/WPI (DIALOG), JSTPlus (JDream2)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/79494 A1 (Chugai Pharmaceutical Co., Ltd.), 25 October, 2001 (25.10.01), Full text (Family: none)	1-13
Y	WO 02/33073 A1 (Chugai Pharmaceutical Co., Ltd.), 25 April, 2002 (25.04.02), Full text & EP 1327681 A1	1-13
Y	Hudson P. J. et al., High avidity scFv multimers; diabodies and triabodies, J. Immunol. Methods, 1999, Vol.231, No.1-2, p.177-89	1-13
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 13 September, 2006 (13.09.06)		Date of mailing of the international search report 26 September, 2006 (26.09.06)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2006/311575

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Ewert S. et al., Structure-based improvement of the biophysical properties of immunoglobulin VH domains with a generalizable approach, Biochemistry, 2003, Vol.42, No.6, p.1517-28	1-13
Y	Arndt M. A. et al., Generation of a highly stable, internalizing anti-CD22 single-chain Fv fragment for targeting non-Hodgkin's lymphoma, Int. J. Cancer, 2003, Vol.107, No.5, p.822-9	1-13

Form PCT/ISA/210 (continuation of second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT		International application No. PCT/JP2006/311575						
Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)								
<p>This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:</p> <p>1. <input type="checkbox"/> Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:</p> <p>2. <input type="checkbox"/> Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:</p> <p>3. <input type="checkbox"/> Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).</p>								
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)								
<p>This International Searching Authority found multiple inventions in this international application, as follows:</p> <p>The "special technical feature" of claim 1 resides in a method for stabilizing $sc(Fv)_2$ comprising introducing a site-directed mutation into the $sc(Fv)_2$, and the "special technical feature" of claim 10 resides in $sc(Fv)_2$ having an T_m value of 55°C or higher.</p> <p>Since it does not appear that there is a technical relationship between these inventions involving one or more of the same or corresponding special technical features, these inventions are not considered to be so linked as to form a single general inventive concept.</p> <p>1. <input type="checkbox"/> As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.</p> <p>2. <input checked="" type="checkbox"/> As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.</p> <p>3. <input type="checkbox"/> As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:</p> <p>4. <input type="checkbox"/> No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:</p> <table style="width: 100%; border: none;"><tr><td style="vertical-align: top; width: 20%;">Remark on Protest the</td><td style="vertical-align: top;"><input type="checkbox"/> The additional search fees were accompanied by the applicant's protest and, where applicable, payment of a protest fee..</td></tr><tr><td></td><td><input type="checkbox"/> The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.</td></tr><tr><td></td><td><input type="checkbox"/> No protest accompanied the payment of additional search fees.</td></tr></table>			Remark on Protest the	<input type="checkbox"/> The additional search fees were accompanied by the applicant's protest and, where applicable, payment of a protest fee..		<input type="checkbox"/> The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.		<input type="checkbox"/> No protest accompanied the payment of additional search fees.
Remark on Protest the	<input type="checkbox"/> The additional search fees were accompanied by the applicant's protest and, where applicable, payment of a protest fee..							
	<input type="checkbox"/> The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.							
	<input type="checkbox"/> No protest accompanied the payment of additional search fees.							

REFERENCES CITED IN THE DESCRIPTION

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- WO 9602576 A [0035]
- WO 9813388 A [0036]
- US 3773919 A [0090]
- EP 58481 A [0090]
- EP 133988 A [0090]
- WO 200556604 A [0111] [0111]

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